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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/529,760	09/16/2005	Daisuke Fujita	2005-0526A	1637
513 WENDEROTH	7590 03/05/2007 H, LIND & PONACK, L.L.	p	EXAM	INER
2033 K STREE		1.	DANG, PHUC T	
SUITE 800	N, DC 20006-1021		ART UNIT PAPER NUMBER 2818	
WASHINGTO	11, DC 20000-1021			
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/529,760	FUJITA, DAISUKE	FUJITA, DAISUKE			
Office Action Summary	Examiner	Art Unit				
	Phuc T. Dang	2818				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a rewill apply and will expire SIX (6) MONO, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 03/3	0/2005.	•				
	s action is non-final.					
<i>;</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) 1 and 2 is/are pending in the applicat	tion.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to.	·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on <u>30 March 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119			٠			
12)⊠ Acknowledgment is made of a claim for foreigr a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
 1. ☐ Certified copies of the priority document 	ts have been received.					
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
Copies of the certified copies of the price	ority documents have beer	received in this National	Stage			
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	s)/Mail Date Informal Patent Application					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 033005.	6) Other:					

DETAILED ACTION

1. This application is a 371 of PCT/JP03/11914 filed September 18, 2003.

Oath/Declaration

2. The oath/declaration filed on September 16, 2005 is acceptable.

Information Disclosure Statement

3. The office acknowledges receipt of the following items from the applicant:

Information Disclosure Statement (IDS) filed on March 30, 2005.

Specification

4. The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

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5. Claim 1 is rejected under 35 U.S.C. 102 (b) as being anticipated by Aono et al. (U.S. Patent No. 6,608,306 B1).

Regarding claim 1, Aono et al. discloses a method of producing a silver nano-structure by means of a scanning tunneling microscope, which comprises using a probe made of silver or a probe having a surface coated with a silver thin film in the scanning tunneling microscope and applying a voltage pulse to the probe so that silver is transferred on a nano-meter scale from the probe onto a surface of semiconductor substrate [see Figs. 5-6 and col. 4, line 51-col. 5, line 11].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Aono et al. in view of Rabe et al. (U.S. Patent No. 5,262,981).

Regarding claim 2, Aono et al. discloses the features of the claimed invention as discussed above, but does not disclose wherein the voltage pulse is applied to the probe under condition of a voltage of +3 V to + 10V and a pulse width of 10 μ s to 1 s.

Rabe et al., however, discloses wherein the voltage pulse is applied to the probe under condition of a voltage of 1 V to 6 V and a pulse width of 1ps to 1 µs [col. 2, lines 30-42] while

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the applicants claimed range by the voltage pulse is applied to the probe under condition of a voltage of +3 V to + 10V and a pulse width of 10 μ s to 1 s.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to perform the voltage pulse within the claimed range, since it is well settle that when the general conditions of a claim are discloses in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Conclusion

- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuc T. Dang whose telephone number is 571-272-1776. The examiner can normally be reached on 8:00 am-5:00 pm.
- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harvey O Minsun can be reached on (571) 272-1835. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and Final communications.
- 9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Lang hur

Phuc T. Dang

Primary Examiner

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